

WHAT IS CLAIMED

1. A laminate comprising a layer derived from reactive ingredients comprising:

- 5 (a) a polymer comprising at least one polyester segment and at least one polyether segment, wherein the polyether segment comprises a pendant fluorinated group comprising:
- (i) a fluorocarbon moiety, and
- (ii) an ether moiety, wherein the fluorocarbon moiety is
- 10 linked to the polyether segment via the ether moiety; and
- (b) a melamine resin.

2. The laminate of claim 1 wherein the polymer and the melamine resin are co-reactable.

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3. The laminate of claim 2 wherein the polymer and the melamine resin are crosslinkable.

4. The laminate of claim 1 wherein the melamine resin is derived from

20 reaction with formaldehyde.

5. The laminate of claim 1 wherein the melamine resin is at least partially alkylated.

25 6. The laminate of claim 5 wherein the melamine resin is at least partially alkylated by reaction with one or more C1-C4 alcohols.

7. The laminate of claim 6 wherein the melamine resin is at least partially alkylated by reaction with one or more alcohols selected from the group

30 consisting of n-butanol, n-propanol, isopropanol, ethanol, and methanol.

8. The laminate of claim 1 wherein the polyether segment comprises monomeric units derived from oxetane.

5 9. The laminate of claim 8 wherein the monomeric units derived from oxetane comprise the pendant fluorinated group having a formula: $-\text{CH}_2-\text{O}-(\text{CH}_2)_n-\text{Rf}$, wherein said Rf group is a linear or branched alkyl group of 1 to 20 carbon atoms with a minimum of 25 percent of the hydrogens of said alkyl groups being replaced by F, or said Rf group being an oxaperfluorinated or perfluorinated polyether having from 4 to 60 carbon
10 atoms, and n being from 1 to 3.

10. The laminate of claim 9, wherein said Rf group is a linear or branched perfluorinated alkyl group of 1 to 20 carbon atoms.

15 11. The laminate of claim 8, wherein polyether segment comprises monomeric units derived from tetrahydrofuran.

12. The laminate of claim 1 comprising a substrate wherein the layer is disposed on the substrate.

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13. The laminate of claim 1 wherein the substrate is thermoformable.

14. A method for forming a laminate comprising steps of:
providing a composition comprising reactive ingredients of:

25 (a) a polymer comprising at least one polyester segment and at least one polyether segment, wherein the polyether segment comprises a pendant fluorinated group comprising:

(i) a fluorocarbon moiety, and

(ii) an ether moiety, wherein the fluorocarbon moiety is linked
30 to the polyether segment via the ether moiety; and

(b) a melamine resin; and
incorporating the composition into a laminate.

15. The method of claim 14 where in the step of incorporating, (a) and (b)
5 are reacted to form a crosslinked composition

16. A reaction product derived from reactive ingredients comprising:
(a) a polymer comprising at least one polyester segment and
at least one polyether segment, wherein the polyether segment
10 comprises a pendant fluorinated group comprising:
(i) a fluorocarbon moiety, and
(ii) an ether moiety, wherein the fluorocarbon moiety is
linked to the polyether segment via the ether moiety; and
(b) a melamine resin.

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17. A method for preparing a multilayered article comprising steps of:
providing a composition comprising reactive ingredients of:
(a) a polymer comprising at least one polyester segment and
at least one polyether segment, wherein the polyether segment
20 comprises a pendant fluorinated group comprising:
(i) a fluorocarbon moiety, and
(ii) an ether moiety, wherein the fluorocarbon moiety is
linked to the polyether segment via the ether moiety; and
(b) a melamine resin; and
25 using the composition to form a layer on a substrate.

18. The method according to claim 17, wherein the substrate comprises a
cellulosic product, fiber, synthetic polymer, metal, or ceramic.

30 19. The method according to claim 17, wherein the substrate includes a
layer of plasticized vinyl chloride polymer.

20. The method according to claim 17, performed to make a wallcovering.

21. The method according to claim 20, performed to make a dry erase
5 surface.

22. The method of claim 17 where in the step of using the composition to
form a layer on a substrate comprises heating the composition to at least
about 150°F.

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